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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,823	02/20/2002	Dennis Colditz	24-NS-120748	7483
23465	7590 04/22/2004		EXAMINER	
JOHN S. BEULICK C/O ARMSTRONG TEASDALE, LLP ONE METROPOLITAN SQUARE SUITE 2600			PALABRICA, RICARDO J	
			ART UNIT	PAPER NUMBER
			3641	
ST LOUIS, 1	MO 63102-2740		DATE MAILED: 04/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summan.	09/683,823	COLDITZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Rick Palabrica	3641			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addi	ress		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period vortices are provided to the provided period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this com O (35 U.S.C. § 133).	nmunication.		
Status					
1) Responsive to communication(s) filed on					
•	action is non-final.				
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the r	merits is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) Claim(s) <u>1,4-13,16-24 and 27-41</u> is/are pendin	g in the application.				
4a) Of the above claim(s) 9,10,19,20,22,29,30,	<u>32 and 34-41</u> is/are withdrawn fro	m consideration.			
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1,4-8,11-13,16-18,21,23,24,27,28,31</u>	and 33 is/are rejected.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTC	D-152.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document	s have been received				
2. Certified copies of the priority document		on No.			
3. Copies of the certified copies of the prior			tage		
application from the International Bureau			· ·		
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P	ite	152\		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (F10-	102)		

DETAILED ACTION

1. Applicant's 1/27/04 Amendment, which directly amends independent claims 1, 13 and 24, is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4-8, 11-13, 16-18, 21, 23, 24, 27, 28, 31 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Hardin, Jr. et al. (U.S. 4,288,292) who discloses a rotating apparatus that facilitates in-vessel transfer or nuclear reactor fuel (e.g. see Figs. 2-7).

Applicant's claim language reads on Hardin, Jr. et al.'s invention as follows: a) "frame comprising a plurality of interconnected beams" reads on intermediate rotating plug 26 (note the interconnected beam structure disposed beneath this frame-see Fig. 2 for details); b) "floor attached to and covering said frame" reads on the floor covering of plug 26; c) "support structure attached to said frame" reads on either one or both of structures 22 and 24; d) "auxiliary platform" reads on small rotating plug 28, which is movably coupled to the frame 26 and extends through the access opening of the floor of said frame; e) "safety rail around a perimeter of the access opening" reads on the raised wall of plug 28; f) "safety rail around the outer perimeter of the floor" reads on the raised

wall around frame 26; g) "lifting device" reads on transfer mechanism 30 that is used to transfer fuel assemblies; h) "refueling floor" reads on the top of concrete support 11.

As to claim 11, the Applicant does not claim the refueling floor of the reactor as part of his invention. Hardin, Jr. et al.'s invention can be configured to have its pressure vessel head mounted on a concrete well having a ledge, the latter providing support for said pressure vessel head. This configuration allows Hardin, Jr. et al.'s invention to have the functional capability of having the support structure engage the refueling floor of the reactor.

As to the limitation in claim 13 regarding a primary containment vessel, this is inherent in any nuclear facility wherein that exercises Hardin, Jr. et al.'s invention.

The claims are to an apparatus but they contain statements that are essentially statements of intended or desired use. For example, the statement in claim 1 starting with "for a nuclear reactor" and ending with "refueling floor", "configured to engage the refueling floor of the reactor", etc. These and other statements of intended use do not serve to patently distinguish the claimed structure over that of the reference, as long as the structure of the cited references is capable of performing the intended use. See MPEP 2111-2115.

See also MPEP 2114 that states:

A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. Ex parte Masham, 2 USPQ2d 1647.

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Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Danly*, 263 F.2d 844, 847, 120 USPQ 528, 531.

[A]pparatus claims cover what a device is, not what a device does." <u>Hewlett-Packard Co. v. Bausch & Lomb Inc.</u>, 15 USPQ2d 1525,1528.

As set forth in MPEP 2115, a recitation in a claim to the material or article worked upon does not serve to limit an apparatus claim.

As to the term "reactor servicing platform" in the claim 1, this term has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

The structure in the cited reference is capable of being used in the same manner and for the intended or desired use as the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3641

3. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hardin, Jr. et al. in view of Spelek (U.S. 4,115,193). Hardin, Jr. et al. disclose the applicant's claim except for a support structure configured to engage the refueling floor of the reactor. Note that Applicant's claim language "refueling floor" reads on the top of Hardin, Jr.'s concrete structure 11.

Spelek teaches a support system for nuclear reactor pressure vessels that can withstand all possible combinations of stresses caused by a postulated core disrupting accident during reactor operation (see Abstract). This support engages the pressure vessel to the containment well. He also teaches that it is customary to have the pressure vessel mounted on and supported by the wall of the containment well, the latter radially surrounding the pressure vessel. Hardin, Jr.'s concrete structure 11 has the same function as this containment well of Spelek.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus, as disclosed by Hardin Jr. et al., by the teaching of Spelek, to use a support structure to engage the pressure vessel with the containment well and thereby engage the structures 22,24 of Hardin Jr., with the reactor refueling floor, to gain the advantages thereof (i.e., additional safety feature), because such modification is no more than the use of well-known expedients within the nuclear art.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

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MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rick Palabrica whose telephone number is 703-306-

5756. The examiner can normally be reached on 7:00-4:30, Mon-Fri; 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone can be reached on 703-306-4198. The fax phone number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

1113.

RJP

April 14, 2004

MICHAEL J. CAROUZ UPFRUSORY PATENT EVARUA